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AFFLICATION NO.	FILINGDATE	FIRST NAMED INVENTOR	ATTORNEY DUCKET NO.	CONFIRMATION NO.	
10/531,468	04/15/2005	Hongyu Yue	Hongyu Yue 267159US26PCT		
	590 04/23/200° AK, MCCLELLAND,	EXAMINER			
1940 DUKE STREET ALEXANDRIA, VA 22314			CHEN, KIN CHAN		
			ART UNIT	PAPER NUMBER	
-		1765			
		· .			
SHORTENED STATUTORY	PERIOD OF RESPONSE	NOTIFICATION DATE	DELIVERY MODE		
3 MON	THS	ELECTRONIC			

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

Notice of this Office communication was sent electronically on the above-indicated "Notification Date" and has a shortened statutory period for reply of 3 MONTHS from 04/23/2007.

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patentdocket@oblon.com oblonpat@oblon.com jgardner@oblon.com

Office Action Summary		Application No.	Applicant(s)			
		10/531,468	YUE, HONGYU			
		Examiner	Art Unit			
		Kin-Chan Chen	1765			
The MAILING DATE of thi Period for Reply	s communication app	ears on the cover sheet with the	correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication	ation(s) filed on <u>27 Fe</u>	ebruary 2007.				
2a)☐ This action is FINAL.	This action is FINAL. 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-8,11-26,29-32,34,35,37 and 38</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allo	wed.	•				
6)⊠ Claim(s) <u>1-8,11,12,16-18,</u>	<u>25,26,31 and 32</u> is/ar	re rejected.				
7) Claim(s) <u>1-8,11-26,29-32,</u>	<u>34,35,37 and 38</u> is/ar	re objected to.				
8) Claim(s) are subject	at to restriction and/or	election requirement.				
Application Papers						
9)☐ The specification is objecte	ed to by the Examine	r.				
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request th	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
the distance detailed office assert for a list of the sertified sopies flot reserved.						
Attachment(s)		" (
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date						
Information Disclosure Statement(s) (Figure 1) Paper No(s)/Mail Date	· · ·	5) Notice of Informal F				
U.S. Patent and Trademark Office	• • • • • • • • • • • • • • • • • • • •					

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DETAILED ACTION

Claim Objections

1. Claims 1-8, 11-26, 29-32, 34, 35, 37, and 38 are objected to because of the following informalities:

In base claims 1, 13, and 22, the second line from the bottom, "filter" signal should be –filtered—signal.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-8, 11, 12, 16-18, 25, 26, 31, and 32 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

The base claims (1, 13, and 22) have been amended to "two filtered endpoint signals", however, several places in claims 1-8, 11, 12, 16-18, 25, and 26 still recite one filtered endpoint signals or related terms which are inconsistent with the base claims, making claims vague and indefinite.

Allowable Subject Matter

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4. Claims 1-8, 11-26, 29-32, 34, 35, 37, and 38 would be allowable if rewritten or amended to overcome the objection and the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

The following is a statement of reasons for the indication of allowable subject matter:

Applicant's statement (February 27, 2007, page 12, second paragraph), the subject application and the reference Willis (US 2004/0004708) were, commonly owned at the time the invention was made, is deemed persuasive. Therefore, rejections relying upon Willis (US 2004/0004708) are withdrawn.

The most relevant reference in the list of prior art cited is Harvey et al. (US 2004/0045934) who teaches that at least one endpoint signal may be measured. At least one filtered endpoint signal may be generated by applying a Savitsky Golay filter to the at least one endpoint signal. However, Harvey does not teach that the first filtered signal corresponds to a first chemical constituent whose concentration decays during endpoint and the second filtered signal corresponds to a second chemical constituent whose concentration rises during endpoint. The end point is determined from the ratio signal generated by a ratio of said two filters endpoint signals. See also applicant's amendments and responses on February 27, 2007 (particularly, page 11, last paragraph; and page 12, last two paragraph), which are deemed persuasive to overcome the previous 35 U.S.C. §103 (a) rejections.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kin-Chan Chen whose telephone number is (571) 272-1461. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nadine Norton can be reached on (571) 272-1465. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

April 16, 2007

Kin-Chan Chen Primary Examiner Art Unit 1765